



Chandler Unified School District

MAT100 Algebra 1

Semester 2, SY 2023 - 24

Course Overview

Course Description

MAT100 Algebra 1 (Full Year, 1 Credit): This course is the first year of a standards-based mathematics curriculum. Number sense topics include the understanding and application of numbers, representing numbers, and the relationships among numbers and different number systems. Data analysis focuses on understanding and applying data collection, organization, and representation to analyze and sort data. Algebra topics use algebraic representations to represent and analyze mathematical situations and structures. Geometric topics include specifying and describing spatial relationships using coordinate geometry and other representational systems. Structure and logic focus on algorithms and algorithmic thinking and using reasoning to solve mathematical problems in contextual situations.

Advanced Placement (AP) / International Baccalaureate (IB) / Dual Enrollment

This not an AP, IB, or Dual Enrollment course. An additional syllabus is not required for this course.

Site

School name and address:

Willis Junior High School, 401 S McQueen Rd, Chandler, AZ 85225

Building principal:

Jeff Delp

delp.jeff@cusd80.com

Faculty Information

Teacher:

Jennifer Carmigiano BS, MEd

carmigiano.jennifer@cusd80.com

480-883-5766

Office hours: Monday 4 - 4:45

Course Learning Outcomes

After this course, students will be able to:

Use properties of rational and irrational numbers. NUMBER AND QUANTITY - N- The Real Number System (N-RN)

Reason quantitatively and use units to solve problems. NUMBER AND QUANTITY - N- Quantities (N-Q)

Interpret the structure of expressions. ALGEBRA - A- Seeing Structure in Expressions (A-SSE)

Write expressions in equivalent forms to solve problems. ALGEBRA - A- Seeing Structure in Expressions (A-SSE)

Perform arithmetic operations on polynomials. ALGEBRA - A- Arithmetic with Polynomials and Rational Expressions (A-APR)

Understand the relationship between zeros and factors of polynomials. ALGEBRA - A- Arithmetic with Polynomials and Rational Expressions (A-APR)

Create equations that describe numbers or relationships. ALGEBRA - A- Creating Equations (A-CED)

Understand solving equations as a process of reasoning and explain the reasoning. ALGEBRA - A- Reasoning with Equations and Inequalities (A-REI)

Solve equations and inequalities in one variable. ALGEBRA - A- Reasoning with Equations and Inequalities (A-REI)

Solve systems of equations. ALGEBRA - A- Reasoning with Equations and Inequalities (A-REI)

Represent and solve equations and inequalities graphically. ALGEBRA - A- Reasoning with Equations and Inequalities (A-REI)

Understand the concept of a function and use function notation. FUNCTIONS - F- Interpreting Functions (F-IF)

Interpret functions that arise in applications in terms of context. FUNCTIONS - F- Interpreting Functions (F-IF)

Analyze functions using different representations. FUNCTIONS - F- Interpreting Functions (F-IF)

Build a function that models a relationship between two quantities. FUNCTIONS - F- Building Functions (F-BF)

Build new functions from existing functions. FUNCTIONS - F- Building Functions (F-BF)

Construct and compare linear, quadratic, and exponential models and solve problems. FUNCTIONS - F Linear, Quadratic, and Exponential Models (F-LE)

Interpret expressions for functions in terms of the situation they model. FUNCTIONS - F- Linear, Quadratic, and Exponential Models (F-LE)

Summarize, represent, and interpret data on a single count or measurement variable. STATISTICS AND PROBABILITY - Interpreting Categorical and Quantitative Data (S-ID)

Summarize, represent, and interpret data on two categorical and quantitative variables. STATISTICS AND PROBABILITY - Interpreting Categorical and Quantitative Data (S-ID)

Interpret linear models STATISTICS AND PROBABILITY- Interpreting Categorical and Quantitative Data (S-ID)

Understand independence and conditional probability and use them to interpret data. STATISTICS AND PROBABILITY - S- Conditional Probability and the Rules of Probability (S-CP)

Materials and Fees

Course Materials

Pencil, eraser, 2 spiral notebooks, highlighter, charged chromebook

Course Fees

n/a

Curriculum and Instructional Resources

Adopted Resource(s)

Algebra 1 - AGA, Kanold, Burger, Dixon, Larson, & Leinwand (HMH)

**An asterisk will indicate a resource containing sexually explicit materials per legislative definitions.*

CUSD has determined that all resources listed above are of exceptional educational value.

Course Access

This course is taught in person at Willis Junior High School. Students will have access to the curriculum and instruction in the classroom. Google Classroom is the primary location for

students to access material when absent from classes taught in person. Buzz is the primary location for COA students to access materials at all times.

- Clever cusd80.com/Page/45109 (select secondary courses will use clever)

Computer Requirements

Students can use devices to engage with electronic resources and turn-in select assignments.

Help

Academic Support

- Contact the teacher to schedule an appointment during office hours
- [NetTutor](https://cusd80.com/NetTutor) offers K-12 CUSD students free live tutoring, question drop-off, and writing feedback (cusd80.com/NetTutor)
- [Ed Tech](https://cusd80.com/Page/45109) support for students, parents/guardians, and community link (cusd80.com/Page/45109)

Mental Health Support

- CUSD's Counseling and Social Services Department provides access to mental health support for students and families through their webpage cusd80.com/Domain/10528
- US Department of Health and Human Services 9-8-8 hotline
- 24-hour Crisis Line Talk: 602-222-9444, Text: 741-741

Student Conduct, Success, and Responsibilities

Student Handbook

Students must follow the policies and procedures established in the Student Handbook. Copies of the handbook can be found at <https://www.cusd80.com/handbooks>. Printed copies will be provided upon request.

To be successful

Make sense of problems and persevere in solving them
Reason abstractly and quantitatively
Construct viable arguments and critique the reasoning of others
Model with mathematics
Use appropriate tools strategically
Attend to precision
Look for and make use of structure
Look for and express regularity in repeated reasoning

Student Responsibilities

Read and follow the CUSD handbook
Bring all supplies to class daily- including a charged computer
Ask questions and/or communicate you need help, as needed
Attend tutoring, as needed
Regularly check grades on infinite campus
Take advantage of quiz/test correction opportunities
When absent, check Google Classroom for work

Late work

Late work will be accepted up to two weeks late, for a 10% decrease in points.

Assessments and Assignments

Students will complete assessments during each unit of study to assess their understanding. Students will complete the CUSD Common Final at the end of the first and second semesters. The Common Final will count for 20% of the student's final semester grade in grades 9-12 and 10% in grades 7-8 (some exceptions may apply at the Junior High level). Common finals will be in ELA, Math, Science, Social Science, and World Language.

Final exams will be given during the CUSD Jr High/High School Early Dismissal days in December and May, as identified on the [District Calendar](#).

If students are requested to participate in a survey, the survey questions will be provided to parents/guardians seven days before student contact.

Grading

Grade Percentage

| | |
|---|------------|
| A | 90% - 100% |
| B | 80% - 89% |
| C | 70% - 79% |
| D | 60% - 69% |
| F | <60% |

Quarter grades

Assessments - 60%
Classwork - 25%
Homework - 15%

Semester grades

The following formula is used to calculate semester grades

- 45/45/10: Each quarter accounts for 45% of the semester grade and the final exam accounts for the remaining 10%.

Units of study

Parents/Guardians should indicate if they "Agree" or "Disagree" with their student's participation in each of the following units of study.

**An asterisk will indicate a unit of study containing sexually explicit materials per legislative definitions.*

Parent/Guardian

Acknowledgement

By signing and returning this form, the parent/guardian acknowledges they have reviewed the resources and units of the study included in the syllabus.

- As the parent/guardian, I understand that I may contact the teacher if I have questions about the resources, content, or units of study.
- As the parent/guardian, I understand that I can check my student's grades in Infinite Campus at any time during the school year.

As the parent/guardian, I agree/disagree with my student's participation in the following units of study. (Please check "agree" or "disagree" for each unit.)

Student name (printed)

Student signature

Parent/Guardian name (printed)

Parent Signature

Date

Please return this page to your student's teacher

Parents/Guardians can email the teacher with questions regarding resources or units of study.